

10/049743

JC 98's PCT/AUTO 10 JAN 2002

#2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No.: RTSP-0234

Inventors: Monia and Cowser

Serial No.: Not Yet Assigned

Filing Date: Herewith

Examiner: Not Yet Assigned

Group Art Unit: Not Yet Assigned

Title: Antisense Modulation of PI3 Kinase p110  
delta Expression

"Express Mail" Label No. EV017478038US  
Date of Deposit January 10, 2002

I hereby certify that this paper is being deposited  
with the United States Postal Service "Express Mail  
Post Office to Addressee" service under 37 CFR 1.10  
on the date indicated above and is addressed to the  
Assistant Commissioner for Patents, Box PCT,  
Washington, D.C. 20231.

By Jane Massey Licata  
Typed Name: Jane Massey Licata, Reg. No. 32,257

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

**INFORMATION DISCLOSURE STATEMENT**

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R.  
§§1.97-1.98, information relating to the above-identified  
application is hereby disclosed. Inclusion of information in  
this statement is not to be construed as an admission that this  
information is material as that term is defined in 37 C.F.R.  
§1.56(b).

**(XX)** In accordance with §1.97(b), since this Information  
Disclosure Statement is being filed either within three  
months of the filing date of the above-identified

application, within three months of the date of entry into the national stage of the above identified application as set forth in §1.491, or before the mailing date of a first Office Action on the merits of the above-identified application, no additional fee is required.

- ( ) In accordance with §1.97(c), this Information Disclosure Statement is being filed after the period set forth in §1.97(b) above but before the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311, therefore:
  - ( ) Certification in Accordance with §1.97(e) is set forth below; or
  - ( ) The fee of \$180.00 as set forth in §1.17(p) is attached.
- ( ) In accordance with §1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311 but before the payment of the Issue Fee, therefore included are: Certification in Accordance with §1.97(e); Petition Requesting Consideration of the Information Disclosure Statement; and the fee of \$130.00 as set forth in §1.17(i)(1).
- ( ) Copies of each of the references listed on the attached Form PTO-1449 (modified) are enclosed herewith.
- (xx)** In accordance with §1.98(d), copies of some or all of the references listed on the attached Form PTO-1449 (modified)

are not enclosed herewith because they were previously submitted to the U.S. Patent and Trademark Office in prior application Serial No. 09/357,070, filed July 19, 1999, for which a claim for priority under 35 U.S.C. §120 has been made in the instant application.

Please charge any deficiency or credit any overpayment to Deposit Account No. 50-1619. This form is submitted in duplicate.

The relevance of the listed references in a foreign language is as stated in the specification at pages @@.

**(XX)** All listed references are in the English language.

Respectfully submitted,

*Jane Massey Licata*

Jane Massey Licata  
Registration No. 32,257

Date: January 10, 2002

Licata & Tyrrell P.C.  
66 E. Main Street  
Marlton, New Jersey 08053

(856) 810-1515

10/049743

3 Rec'd PCT/PTO 10 JAN 2002

Sheet 01 of 03

Form PTO-1449 Modified		Docket No.	Serial No.
		RTSP-0234	Not Yet Assigned
List of Patents and Publications Cited by Application (Use several sheets if necessary)		Applicant	
		Monia and Cowser	
U.S. Department of Commerce Patent and Trademark Office		Filing Date Herewith	Group Not Yet Assigned

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AA	Deora et al., A redox-triggered ras-effector interaction. Recruitment of phosphatidylinositol 3'-kinase to Ras by redox stress, <i>J. Biol. Chem.</i> , 1998, 273:29923-29928
	AB	Fry, Structure, regulation and function of phosphoinositide 3-kinases, <i>Biochim. Biophys. Acta.</i> , 1994, 1226:237-268
	AC	Hu et al., Cloning of a novel, ubiquitously expressed human phosphatidylinositol 3- kinase and identification of its binding site on p85, <i>Mol. Cell. Biol.</i> , 1993, 13:7677-7688
	AD	Molz et al., Cpk is a novel class of <i>Drosophila PtdIns</i> 3-kinase containing a C2 domain, <i>J. Biol. Chem.</i> , 1996, 271:13892-13899
	AE	Schu et al., Phosphatidylinositol 3-kinase encoded by yeast VPS34 gene essential for protein sorting, <i>Science</i> , 1993, 260:88-91
	AF	Stirdivant et al., Cloning and mutagenesis of the p110 alpha subunit of human phosphoinositide 3'-hydroxykinase, <i>Bioorg. Med. Chem.</i> , 1997, 5:65-74
	AG	Stoyanov et al., Cloning and characterization of a G protein-activated human phosphoinositide-3 kinase, <i>Science</i> , 1995, 269:690-693
	AH	Ui et al., Wortmannin as a unique probe for an intracellular signalling protein, phosphoinositide 3-kinase, <i>Trends Biochem. Sci.</i> , 1995, 20:303-307
	AI	Vanhaesebroeck et al., P110delta, a novel phosphoinositide 3-kinase in leukocytes, <i>Proc. Natl. Acad. Sci. U. S. A.</i> , 1997, 94:4330-4335
	AJ	Vlahos et al., A specific inhibitor of phosphatidylinositol 3-kinase, 2-(4-morpholinyl)-8-phenyl-4H-1-benzopyran-4-one (LY294002), <i>J. Biol. Chem.</i> , 1994, 269:5241-5248
EXAMINER		DATE CONSIDERED

10/049743

Rec'd PTO 10 JAN 2002

Sheet 02 of 03

<b>Form PTO-1449 Modified</b>		Docket No. <b>RTSP-0234</b>	Serial No. <b>Not Yet Assigned</b>
List of Patents and Publications Cited by Applicant (Use several sheets if necessary)		Applicant <b>Monia and Cowsert</b>	
U.S. Department of Commerce		Filing Date <b>Herewith</b>	Group <b>Not Yet Assigned</b>

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	AK	Woscholski et al., "A comparison of demethoxyviridin and wortmannin as inhibitors of phosphatidylinositol 3-kinase", <i>FEBS Lett.</i> <b>1994</b> 342:109-114
	AL	Hoover et al., "Indole-2 carboxamide Inhibitors of Human Liver Glycogen Phosphorylase", <i>J. of Medicinal Chemistry</i> <b>1998</b> 41(16):2934-2938
<b>EXAMINER</b>		<b>DATE CONSIDERED</b>

10/049743

613 Rec'd PCT/PTO 10 JAN 2002

Sheet 03 of 03

<b>Form PTO-1449 Modified</b>	<b>Docket No.</b> <b>RTSP-0234</b>	<b>Serial No.</b> <b>Not Yet Assigned</b>
<b>List of Patents and Publications Cited by Applicant (Use several sheets if necessary)</b>	<b>Applicant</b> <b>Monia and Cowser</b>	
<b>U.S. Department of Commerce Patent and Trademark Office</b>	<b>Filing Date</b> <b>Herewith</b>	<b>Group</b> <b>Not Yet Assigned</b>

U. S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

**EXAMINER**

**DATE CONSIDERED**